



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/072,602
Source: OTPE
Date Processed by STIC: 2-28-2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 10/072,602

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
 Wrapped Aminos was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
 prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
 Numbering use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
 ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules,
 each n or Xaa can only represent a single residue. Please present the maximum number of each
 residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0 A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
 "bug" sequences(s) . Normally, PatentIn would automatically generate this section from the
 previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
 the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
 Artificial or Unknown sequences.

- 7 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 (NEW RULES) <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
 (NEW RULES) Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213> Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
 Response scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
 is Artificial Sequence

- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
 "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0 Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
 "bug" resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
 listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.



OIKE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/072,602

DATE: 02/28/2002
TIME: 12:35:23

Input Set : A:\2314-249.ST25.txt
Output Set: N:\CRF3\02282002\J072602.raw

3 <110> APPLICANT: University of Utah Research Foundation
4 Cognetix, Inc.
5 Olivera, Baldomero M.
6 McIntosh, J, Michael
7 Watkins, Maren
8 Garrett, James E.
9 Cruz, Lourdes J.
10 Grilley, Michelle
11 Schoenfeld, Robert M.
12 Walker, Craig
13 Shetty, Reshma
14 Jones, Robert M.
16 <120> TITLE OF INVENTION: Cone Snail Peptides
18 <130> FILE REFERENCE: 2314-249
C--> 20 <140> CURRENT APPLICATION NUMBER: US/10/072,602
C--> 20 <141> CURRENT FILING DATE: 2002-02-11
20 <150> PRIOR APPLICATION NUMBER: US 60/267,408
21 <151> PRIOR FILING DATE: 2001-02-09
23 <160> NUMBER OF SEQ ID NOS: 638
25 <170> SOFTWARE: PatentIn version 3.0

**Does Not Comply
Corrected Diskette Needed**

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

ERRORED SEQUENCES

3354 <210> SEQ ID NO: 120
3355 <211> LENGTH: 68
3356 <212> TYPE: PRT
3357 <213> ORGANISM: Conus geographus
3359 <400> SEQUENCE: 120
E--> 3361 Met Gly Met Arg Met Xaa Phe Ser Val Phe Xaa Gln Val Val Xaa Gly
3362 1 5 10 15
E--> 3365 Thr Thr Val Val Ser Phe Xaa Ser Arg Arg Gly Pro Lys Ser Arg Arg
3366 20 25 30
3369 Gly Glu Pro Ile Pro Thr Thr Val Ile Asn Tyr Gly Glu Cys Cys Lys
3370 35 40 45
3373 Asp Pro Ser Cys Trp Val Lys Val Lys Asp Phe Gln Cys Pro Gly Ala
3374 50 55 60
3377 Ser Pro Pro Asn
3378 65
7880 <210> SEQ ID NO: 282
7881 <211> LENGTH: 61
7882 <212> TYPE: PRT
7883 <213> ORGANISM: Conus betulinus

ALL Xaa must have feature
containing numeric identifiers
<220> - <223>. See item # 9
on ERROR Summary
SHEET.

RAW SEQUENCE LISTING

DATE: 02/28/2002

PATENT APPLICATION: US/10/072,602

TIME: 12:35:24

Input Set : A:\2314-249.ST25.txt

Output Set: N:\CRF3\02282002\J072602.raw

7885 <400> SEQUENCE: 282
 7887 Met Arg Cys Leu Pro Val Phe Ile Ile Leu Leu Val Leu Ile Ala Ser
 7888 1 5 10 15
 7891 Ala Pro Thr Val Asp Ala Arg Pro Lys Ile Glu Asp Asp Glu Ser Leu
 7892 20 25 30
 E--> 7895 Ala Ser Phe His Xaa His Xaa Pro Pro Xaa Xaa Xaa Thr Leu Leu Asn
 7896 35 40 45
 7899 Lys Arg Asn Cys Cys Pro Asp Ser Pro Pro Cys Cys His
 7900 50 55 60
 9372 <210> SEQ ID NO: 342
 9373 <211> LENGTH: 64
 9374 <212> TYPE: PRT
 9375 <213> ORGANISM: Conus episcopatus
 9377 <400> SEQUENCE: 342
 9379 Met Arg Cys Leu Pro Val Phe Val Ile Leu Leu Leu Leu Thr Ala Ser
 9380 1 5 10 15
 E--> 9383 Gly Pro Xaa Val Asp Ala Lys Val His Leu Lys Thr Lys Gly Asp Gly
 9384 20 25 30
 9387 Pro Leu Ser Ser Phe Arg Asp Asn Ala Lys Ser Thr Leu Gln Arg Leu
 9388 35 40 45
 9391 Gln Asp Lys Ser Thr Cys Cys Gly Tyr Arg Met Cys Val Pro Cys Gly
 9392 50 55 60
 10217 <210> SEQ ID NO: 377
 10218 <211> LENGTH: 37
 10219 <212> TYPE: PRT
 10220 <213> ORGANISM: Conus geographus
 10222 <400> SEQUENCE: 377
 E--> 10224 Ser Asp Xaa Arg Asp Asp Thr Ala Lys Asp Glu Gly Ser Xaa Met Asp
 10225 1 5 10 15
 10228 Lys Leu Val Glu Lys Lys Glu Cys Cys His Pro Ala Cys Gly Lys His
 10229 20 25 30
 10232 Tyr Ser Cys Gly Arg
 10233 35

see page 1



Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 02/28/2002

PATENT APPLICATION: US/10/072,602

TIME: 12:35:26

Input Set : A:\2314-249.ST25.txt

Output Set: N:\CRF3\02282002\J072602.raw

L:20 M:270 C: Current Application Number differs, Replaced Current Application No

L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:1058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:1371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:1442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:1582 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:1656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:1726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:1811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:1814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:1900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:1903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:1906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:1992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:1995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:1998 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:2086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:2089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:2177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78

VERIFICATION SUMMARY

DATE: 02/28/2002

PATENT APPLICATION: US/10/072,602

TIME: 12:35:26

Input Set : A:\2314-249.ST25.txt

Output Set: N:\CRF3\02282002\J072602.raw

L:2180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78
L:2266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:2269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:2272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:3361 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:120
M:340 Repeated in SeqNo=120
L:7895 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:282
L:9383 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:342
L:10224 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:377